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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



Secretion NOFORN 25X1

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basic imagery interpretation report

Ramenskoye Flight Test Center (S)

STRATEGIC WEAPONS INDUSTRIAL FACILITIES

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| INSTALLATION OR ACT | IVITY NAME | | | | COUNTRY | _ |
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| Ramenskoye Fl | ght Test Center | | | | UR | |
| UTM COORDINATES | GEOGRAPHIC COORDINATES | CATEGORY | BE NO. | COMIREX NO. | NIETB NO. | - |
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| LATEST IMAGERY USED | ort updates NPIC report Z- | NA ABSTRAC 14620/82 on Ra | ION DATE (If requi | light Test Center | (FTC), USSR, and | - d |
| 1. This rep | ort updates NPIC report Z- uction, aircraft activity, and r off date for the previous rep | NA ABSTRAC 14620/82 on Ranew/modified | ION DATE (If requi | light Test Center | the | _ d e 2 |

BASIC DESCRIPTION

areas delineated), a location map, and a table of mensural data. (S/WN)

3. Ramenskoye FTC is approximately 20 nautical miles southeast of Moscow (Figures 1 and 2). A summary of construction observed subsequent to the last reporting period, is presented 25X1 chronologically in Figures 3, 4, and 5 and Table 1. (5/WN)

Construction

- 4. Four buildings were completed at the FTC during this period. An administration/engineering building (Figure 3; item 4) in the support area was complete by late July 1982. Two support buildings (Figure 4; items 11 and 12) were complete by February 1983 and an administration/engineering building (Figure 4; item 15) was complete by May 1983. (S/WN)
- 5. Construction, reported in the previous reporting period, was still continuing. As of seven support buildings (Figure 3; items 1, 2, 3, 6, 7, 8, and 10) were all under construction. An adminis-

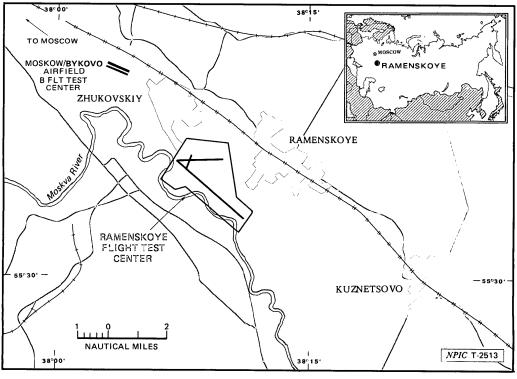


FIGURE 1. LOCATION OF RAMENSKOYE FLIGHT TEST CENTER, USSR

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Table 1.

Mensural Data for New Construction, Ramenskoye Flight Test Center, USSR (Items keyed to Figures 3, 4, and 5).

The table in its entirely a classified SECRETAWNITE.

| Item | Structure | Dimensions* (m) | | | Floorspace | Date | Remarks |
|------|------------------------------|-----------------|---|---|------------|----------|--|
| | | L | W | Н | (Sq m) | Complete | |
| 1 | Support bldg | | | | 181 | | Ucon |
| 2 | Support bidg | | | | 200 | | Ucon |
| 3 | Support bldg | | | | 899 | | Ucon; at least 4 stories |
| 4 | Admin/Engineering bldg | | | | 8.688 | Jul 82 | 4-story |
| 5 | Admin/Engineering bidg | | | | 1,444 | | Ucon; at least 3 stories |
| 6 | Support bldg | | | | 383 | | Ucon; may be more than one story when complete |
| 7 | Support bldg | | | | 231 | | Ucon; may be more than one story when complete |
| 8 | Support bldg | | | | 287 | | Ucon |
| 9 | Unidentified construction | | | | | | Footings for a building |
| 10 | Support bidg | | | | 265 | | Ucon; may be more than one story when complete |
| 11 | Support bldg | | | | 375 | Feb 83 | |
| 12 | Support bldg | | | | 202 | Feb 83 | |
| 13 | Admin/Engineering bldg | | | | 618 | | Ucon |
| 14 | Admin/Engineering bldg | | | | 12.719 | | Ucon: 5- and 10-story wings |
| 15 | Admin/Engineering bldg | | | | 2,166 | May 83 | 6 story |
| 16 | Unidentified construction | | | | _ | | Large area of grading and back filling off SSE end of runway |

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|--|--------------|
| | 25X1 |
| tration/engineering building (Figure 3; Item 5) will be at least three stories. Construction was in the early stages on an unidentified building (Figure 3; Item 8), with only some of the footings in place. (S/WN) 6. Two administration/engineering buildings (Figure 4: Item 13 and 14) were under construction in the Filight Research Institute (ILII) area. The later building (Item 14) will have five and 10-story wings. Unidentified construction (Figure 5): Item 16 of the south-outheast end of the runway, discussed in the previous report, was still in the early stages, (S/WN) | |
| Systems Activity | |
| Aerospace | |
| 7. RAM-R. The RAM-R. Figures 6 and 72, the Soviet space shuttle, was identified on a lating a modified BisNo. Bin the LII area. The shuttle had been present on it. But clouds and haze prevented an identification. On the RAM-R and BISON were at the end of the east-west runway, probably undergoing rast itess. IS/WIN) | |
| 8. The RANA-R is similar to the US Space Shuttle, but is slightly larger. Its main dimensions in meters are as follows: | |
| o verall length vin span cargo bay length cargo bay width tall cone length wing tip chord | 25X1 |
| 9. The RANAR has not been seen with a vertical stabilities, which will have to be attached before the shuttle its flown with the BISON is or nately flow the stable. BISON is or nately let in light when carrying the shuttle with the vertical stabilizer attached or, more likely, the shuttle with the stabilizer attached cannot clear the bridges over the Mokiva Rote. The Assembles harded between Amensokey and Moskva Guided Missile Plant Tushino 82 where it was built. The vertical stabilizer will probably be attached after transport to Tyuratam. (SAWN) | |
| 10. On he BISON and shuttle were of the runway at the TFC (Figure 8). The BISON aparently veered off the runway at came to rest on the inflavor or runway and came to rest on the inflavor or runway and came to rest on the runway and came to the shuttle was observed. The BISON of the BISON was in the runway the runway and the runway and runway and the runway and | |
| 11. On □ operations to retain the hardrige are the already seen underway. The BISON, either because it was mired so deeply or because the landring ear the so badly damaged, could not be moved with the shuttle attached. Two concrete block paths were laid from the runway to the BISON, and two cranes were present to remove the shuttle. (S/MN) er | |
| 12. By the shuttle had been removed and was probably in a hangar in the LII area. By the BISON had been removed and was probably also no profer the LII hangar. (All area. By the BISON had been removed and was probably so in the LII hangar. (All area. By the BISON had been removed and was probably so in the LII hangar. (All area. By the BISON had been removed and was probably so in the LII area. By the BISON had been removed and was probably as the LII area. By the BISON had been removed and was probably as the BISON had been removed and | 25X1 25X1 |
| 13. The shrutile was probably returned by barge to Variation. On an empty barge was at the per at the FTC, and on an empty barge was at the land-low-water transhulty at | 25X1 |
| 14. Aerospace Components. Solh the components (discussed in detail in the provious). APIC report have been removed from the FTC, By the component had been transported to Tyuraram on a modified BISON. The component was similarly transferred between Signature of the signature of the signature of the BISON/component combination is probably complete, and it is unlikely that either of the components will be returned to the FTC. (S/WN) | 25X1 |
| Aircraft Prototypes | |
| 16. RAM-Q. The RAM-Q (Figures 9 and 10), first seen at the FTC on sequence is a twin- engine, single-seat aircraft with a low-mounted sweet wing. The size and configuration, which are similar to the Gormman A-6 Intruder, indicates that it may be a ground-support aircraft. The best imagery of the of the aircraft during the reporting period was on all light on the configuration. The plane was bridge to the configuration of the plane was | |
| hidden by the shelter in the New Il jushin area. Based on the locations of the observations, the RAM-Q is probably associated with the Ilyushin design bureau. (S/NN) 17. RAM-M. The RAM-M was absent from its normal parking position in the LII area for nearly five | |
| months during the later half of 1982. On the later half of 1982. On the later half of 1982 on the later half of 1982 on the later half of 1982. On the later half of 1982 on t | 25X1 |
| area on Sand on the crossover link between the two runways on ARAM-M fusilegae and with gualegae and with gualegae and with gualegae and with gualegae and with the durt gualegae for a structural test model or mock-up. (5/WN) | 25X1;1 |

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| 18. BLA | CKJACK A. The horizontal stabilizer of the BLACKJACK A was modified during the period probably during the summer of 1982, when a CHARGER was normally in the BLACKJACK | |
| hangar. The | stabilizer span was reduced to from the previous and the tip chord | 2 |
| was increase | from This modified stabilizer was probably on the BLACKJACK by | 2 |
| 10 Oh | (S/WN) servations of the BLACKJACK A have been infrequet and there is no evidence that two | 2 |
| models of the | e BLACKJACK A have been infrequet and there is no evidence that two | |
| | robable computer van truck (Figure 11) was observed on next to the hardstand where | 2 |

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Bomber Activity

| 21. BEAR H. During the reporting period, BEAR H (the latest model BEAR), currently in production at Taganrog Airframe Plant Dimitrov 86 had been deployed to an operational unit at Dolon Airfield Also during the period, considerable activity involving BEAR H aircraft took place at the FTC. While only one BEAR H had been observed at the FTC during the previous reporting period, two were present in November 1982, three in March 1983, and possibly a fourth was present by April 1983. (S/WN) | 25X 25X |
|---|--------------------|
| 22. At the FTC on an unidentified objet was next to a BEAR H (Figure 12). Although canvas covered and probably on a dolly, this object was approximately long with a diameter, which may have been exaggerated by the canvas covering. (S/WN) | 25X 25X |
| 23. On an unidentified object was under the starboard wing of a BEAR H, between the fuselage and No. 3 engine (Figure 13). The object extended forward and aft of the wing and had an overall length of although the aft end was wider than at the forward end. On a similar object was again in the same position on a BEAR H (Figures 14a and 14b). The length, however, was and the front end appeared to be wider than that of the object seen on (S/WN) | 25X 25X 25X1 |
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| 24. The BEAR H has been associated with the testing of the AS-X-15 air-launched cruise missile (ALCM). Although the AS-X-15 has not been observed at the FTC, the length of the unidentified object on approximates the estimated size of the new ALCM. If the object seen on is the AS-X-15 ALCM, then the object seen on was probably an ALCM mounted in the rear position of a pylon. The observation was probably two ALCMs mounted on a single pylon, which would account for the increased overall length and the wider appearance of the front end. On the other hand, it is possible that the object on the BEAR H was a single missile, 12 to 13 meters long, but there is no evidence that a weapon of that size is being developed. (S/WN) | 25X1 25X1 25X1 25X1 |
|---|------------------------------|
| 25. Analysis of Ramenskoye, Taganrog, Akhtubinsk FTC , Kuybyshev Airframe Plant Lenin 18 and Dolon Airfield indicates that as of May 1983 as many as nine BEAR H have been produced. (S/WN) | 25X1 25X1 |
| 26. BACKFIRE. BACKFIRE activity was normal during the reporting period, except on when a BACKFIRE C had an unidentified object under the starboard wing. This object, approximately in diameter, extended forward of the wing but did not appear to extend aft of the wing trailing edge. The KITCHEN and the airframe, which have previously been seen on BACKFIRE, extend forward and aft of the wing. (S/WN) | 25X1 25X1 25X1 25X1 |
| Fighter Activity | |
| 27. FLANKER A and FLANKER A MOD. FLANKER A activity, observed only occasionally, was normal during this period. Considerable activity involving the FLANKER A MOD, however, was observed at the FTC and Komsomolsk Airframe Plant Ordzhonikidze 126 (S/WN) | 25X1 |
| (a) The | 25X1 |
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| 28. The first fully assembled FLANKER A MOD seen at the FTC was on the crossover link on Figure 15). An assembled FLANKER A MOD has not been seen here since. Other major activity involving FLANKER A MOD occurred in late March 1983, when five fuselages were in the Sukhoy area. Four of these had probably been delivered from Komsomolsk, where palletized MOD fuselages had been seen in early March. (S/WN) | 25X1 25X1 |
|---|--|
| 29. The presence of the palletized FLANKER A MOD at Komsomolsk and the subsequent high number at the FTC may indicate that the FLANKER A MOD aircraft is in preseries production. It is unusual, however, for preseries production aircraft to be delivered to Ramenskoye instead of being flight tested at the-production facility. Only one assembled FLANKER A MOD has been observed at Komsomolsk, an indication that predelivery flight testing of FLANKER A MOD aircraft may not be performed at the plant. The palletized aircraft may be flown to Ramenskoye because the Komsomolsk Plant may not be fully equipped to perform flight tests. (S/WN) | è |
| 30. The FLANKER A MOD weapons test program has been active at Akhtubinsk since at least early September 1982. It is unusual that the Soviets would begin weapons testing there before determining the aerodynamic effects of the modifications at Ramenskoye. But, in an effort to accelerate the program to operational deployment status, the FLANKER A MOD aircraft may be tested concurrently at the two FTCs. The Soviets may have enough confidence in the aerodynamic worthiness of the modifications to permit dual testing. (S/WN) | 7 |
| 31. FULCRUM A. During this period, FULCRUM A aircraft were occasionally observed at the FTC, mainly in shelters in the East parking area. The focus of this test program, however, has apparently shifted from Ramenskoye to Lukhovitsy Airframe Plant where six preproduction models were observed on and to Akhtubinsk, where nine were seen on (S/WN) | 25X1 25X1 |
| Transport Activity | |
| 32. CANDID A Modified CANDID, (Figure 16), was seen for the first time at the FTC on The aircraft, parked in the Old Ilyushin area, has wing tip pods and enlarged main gear housings. Two other CANDID, have similar features. CANDID has wing tip pods, and CANDID has enlarged gear housings, as well as other modifications. CANDID left Ramenskoye by and was seen in late March at Novosibirsk Airfield Northeast which serves Novosibirsk Scientific Institute of Aviation SIBNIA CANDID remained at Novosibirsk until late May, when it was returned to Ramenskoye. The reason for the presence of the CANDID at SIBNIA is unknown. (S/WN) | 25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1 |
| 33. The function of the Modified CANDID is not known, but the wing tip pods on CANDID are similar to refueling and ECM pods on some western aircraft. Another CANDID at Ramenskoye is thought to be the CANDID tanker testbed. (S/WN) | 25X1 25X1 25X1 |
| 34. CANDID During the reporting period, CANDID the testbed aircraft for the new large turbofan engine, underwent some modification. Its engine had been removed by the CANDID had probably been moved into one of the hangars in the Old Ilyushin area. On CANDID was on the transient parking apron with the new engine reinstalled. No modifications to the engine nacelle were observed. The CANDID, however, appeared to be equipped with an air scoop, possibly for cooling test equipment on each side of the upper fuselage just behind the wings. (S/WN) | 25X1 25X1 25X1 25X1 |
| 35. Modified CARELESS. Two modified CARELESS were identified during this period. One, normally parked in either the Old Ilyushin area or the East Parking area, had a pointed nose extension, a rail antenna mounted atop the fuselage, and possibly a modifiation to the horizontal stabilizer (Figure 17). The function of the pointed nose extension is not known, but nose probes of this configuration are often found on prototype aircraft or aircraft involved in specialized test programs. The aircraft has been regularly seen at the FTC since (S/WN) | 25 X 1 |
| 36. Another CARELESS, which has been in the Tupolev/East Parking areas, has new nacelles, apparently modified for new engines (Figure 18). The nacelles are slightly longer than normal NK-8-2 engine nacelles and do not have the thrust reversal grilles (appearing as black patches) found on standard CARELESS. ² (S/WN) | -0,(, |
| 37. The new nacelles are similar to the CLASSIC nacelles for the D-30KU engine. The CLASSIC originally had the NK-8-4 engine and nacelles similar to standard CARELESS. The CLASSIC nacelles, however, were changed to accommodate the new engines. This activity probably represents an attempt to equip the CARELESS with more fuel efficient engines, possibly uprated D-30s. It is unlikely that operational CARELESS will receive new engines, but newer models may have this new engine in the future. ² (S/WN) | , |
| 38. Modified CLOBBER, CRUSTY, and COOT. A CLOBBER, modified with a conical nose extension (Figure 19), was first observed on and has been present on most subsequent coverage. In addition, a CRUSTY, modified with a small conical nose extension, has been in the Old Ilyushin area since This was the second CRUSTY with this modification to be seen at the FTC. The first, which was identified in August 1982, was also present. (S/WN) | 25X1 25X1 |
| 39. The purpose of these nose modifications is unknown. A COOT with a similar conical nose extension (Figure 20), was also parked in the same general area and may be associated with missile testing. (S/WN) | 25X1 |
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| | CRUSTY, modified with a BACKFIRE-like nose (Figure 17), has been present since | 2 |
| This type | of modified CRUSTY, which is being produced at Kharkov Airframe Plant 135 | 2 |
| This type | | |
| This type is believe (S/WN) | of modified CRUSTY, which is being produced at Kharkov Airframe Plant 135 do to be involved in air crew training and may be at the FTC for system evaluation. | 2 |
| This type is believe (S/WN) Rotary Wing A | of modified CRUSTY, which is being produced at Kharkov Airframe Plant 135 does not not be involved in air crew training and may be at the FTC for system evaluation. | 2 |
| This type is believe (S/WN) Rotary Wing A | of modified CRUSTY, which is being produced at Kharkov Airframe Plant 135 do to be involved in air crew training and may be at the FTC for system evaluation. Ctivity d Probable HIP H, Modified HIP C, and HELIX. A modified probable HIP H (Figure 21) | 2 |
| This type is believe (S/WN) Rotary Wing A 41. Modified was in the Mil all forward from the | of modified CRUSTY, which is being produced at Kharkov Airframe Plant 135 do to be involved in air crew training and may be at the FTC for system evaluation. Ctivity d Probable HIP H, Modified HIP C, and HELIX. A modified probable HIP H (Figure 21) rea on The modification consists of a possible boom or tube extending upper part of the nose. In addition, black patches, possibly dielectric material, were on | 2 2 |
| This type is believe (S/WN) Rotary Wing A 41. Modified was in the Mil all forward from the | of modified CRUSTY, which is being produced at Kharkov Airframe Plant 135 do to be involved in air crew training and may be at the FTC for system evaluation. Ctivity d Probable HIP H, Modified HIP C, and HELIX. A modified probable HIP H (Figure 21) rea on The modification consists of a possible boom or tube extending upper part of the nose. In addition, black patches, possibly dielectric material, were on now covering on the nose prevented a detailed analysis, and little activity has been seen | 2 2 |
| This type is believe (S/WN) Rotary Wing A 41. Modified was in the Mil al forward from the the tail boom. Cal | of modified CRUSTY, which is being produced at Kharkov Airframe Plant 135 do to be involved in air crew training and may be at the FTC for system evaluation. Ctivity d Probable HIP H, Modified HIP C, and HELIX. A modified probable HIP H (Figure 21) rea on The modification consists of a possible boom or tube extending upper part of the nose. In addition, black patches, possibly dielectric material, were on now covering on the nose prevented a detailed analysis, and little activity has been seen | 2 2 2 |
| This type is believe (S/WN) Rotary Wing A 41. Modified was in the Mil al forward from the the tail boom. Cal around this helicota. Since area (Figure 22). | ctivity d Probable HIP H, Modified HIP C, and HELIX. A modified probable HIP H (Figure 21) rea on The modification consists of a possible boom or tube extending upper part of the nose. In addition, black patches, possibly dielectric material, were on nose covering on the nose prevented a detailed analysis, and little activity has been seen opter. (S/WN) a HIP C with booms on each side of the fuselage has been in the Mil The booms are similar to spray booms, are approximately and are | 2 2 2 2 |
| This type is believe (S/WN) Rotary Wing A 41. Modified was in the Mil all forward from the the tail boom. Call around this helicotage. 42. Since area (Figure 22). approximately | ctivity d Probable HIP H, Modified HIP C, and HELIX. A modified probable HIP H (Figure 21) rea on The modification consists of a possible boom or tube extending upper part of the nose. In addition, black patches, possibly dielectric material, were on invas covering on the nose prevented a detailed analysis, and little activity has been seen opter. (S/WN) a HIP C with booms on each side of the fuselage has been in the Mil The booms are similar to spray booms, are approximately and are aft of the nose. Little activity has been seen around this HIP. (S/WN) | 2 2 2 2 2 2 2 |
| This type is believe (S/WN) Rotary Wing A 41. Modified was in the Mil all forward from the the tail boom. Call around this helicot 42. Since area (Figure 22). approximately 43. A HELIX | ctivity d Probable HIP H, Modified HIP C, and HELIX. A modified probable HIP H (Figure 21) rea on The modification consists of a possible boom or tube extending upper part of the nose. In addition, black patches, possibly dielectric material, were on nose covering on the nose prevented a detailed analysis, and little activity has been seen opter. (S/WN) a HIP C with booms on each side of the fuselage has been in the Mil The booms are similar to spray booms, are approximately and are | 2 2 2 2 |
| This type is believe (S/WN) Rotary Wing A 41. Modifier was in the Mil at forward from the the tail boom. Cal around this helicot 42. Since area (Figure 22). approximately 43. A HELIX intersection of the | ctivity dependent of modified CRUSTY, which is being produced at Kharkov Airframe Plant 135 dependent of the involved in air crew training and may be at the FTC for system evaluation. ctivity dependent HIP H, Modified HIP C, and HELIX. A modified probable HIP H (Figure 21) read on the modification consists of a possible boom or tube extending supper part of the nose. In addition, black patches, possibly dielectric material, were on mass covering on the nose prevented a detailed analysis, and little activity has been seen opter. (S/WN) a HIP C with booms on each side of the fuselage has been in the Mil The booms are similar to spray booms, are approximately and are aft of the nose. Little activity has been seen around this HIP. (S/WN) if, seen for the first time at the FTC on was on the infield area near the etwo runways. No particular activity has been associated with this HELIX. (S/WN) | 2 2 2 2 2 2 2 |
| This type is believe (S/WN) Rotary Wing A 41. Modified was in the Mil all forward from the the tail boom. Call around this helicot 42. Since area (Figure 22). approximately 43. A HELIX | ctivity dependent of modified CRUSTY, which is being produced at Kharkov Airframe Plant 135 dependent of the involved in air crew training and may be at the FTC for system evaluation. ctivity dependent HIP H, Modified HIP C, and HELIX. A modified probable HIP H (Figure 21) read on the modification consists of a possible boom or tube extending supper part of the nose. In addition, black patches, possibly dielectric material, were on mass covering on the nose prevented a detailed analysis, and little activity has been seen opter. (S/WN) a HIP C with booms on each side of the fuselage has been in the Mil The booms are similar to spray booms, are approximately and are aft of the nose. Little activity has been seen around this HIP. (S/WN) if, seen for the first time at the FTC on was on the infield area near the etwo runways. No particular activity has been associated with this HELIX. (S/WN) | 2 2 2 2 2 2 2 |
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| This type is believe (S/WN) Rotary Wing A 41. Modified was in the Mil all forward from the the tail boom. Call around this helicot 42. Since area (Figure 22). approximately 43. A HELIX intersection of the Miscellaneous 44. By | ctivity d Probable HIP H, Modified HIP C, and HELIX. A modified probable HIP H (Figure 21) rea on The modification consists of a possible boom or tube extending upper part of the nose. In addition, black patches, possibly dielectric material, were on novas covering on the nose prevented a detailed analysis, and little activity has been seen opter. (S/WN) a HIP C with booms on each side of the fuselage has been in the Mil The booms are similar to spray booms, are approximately and are aft of the nose. Little activity has been seen around this HIP. (S/WN) i, seen for the first time at the FTC on was on the infield area near the etwo runways. No particular activity has been associated with this HELIX. (S/WN) Activity | 2 |

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RCA-09/0018/83

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| IMAGERY | | |
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| All available satellite imagery acquired from report. (S/WN) | was used in the preparation of this | 25 X 1 |
| MAP OR CHART | | |
| DMAAC. US Air Target Chart, Series 200, Sheet 0167-5, Scale 1:200,000 | | 25 X 1 |
| DOCUMENTS | | |
| 1. NPIC. Z-14620/82, RCA-09/0026/82, Ramenskoye Flight Test Center | (5), Nov 82 | 25 X 1 |
| 2. Jane's All The World's Aircraft, 1981-82 (U) | | |
| REQUIREMENT | | |
| COMIREX J02 Project 543068J | | |
| Comments and queries regarding this report are welcome. They may be dir Forces Division, Imagery Exploitation Group, NPIC, on | rected to Warsaw Pact | 25X1 25X1 |

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